TRAAP
Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

| | |
|---|---|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Machine Id
## HONDA 2010 HONDA RIDGELINE
Component
## Gasoline Engine
Fluid
## TRC MOLY XL PROSPEC III 10W30 (5 QTS)

## RECOMMENDATION

Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

## CONTAMINATION

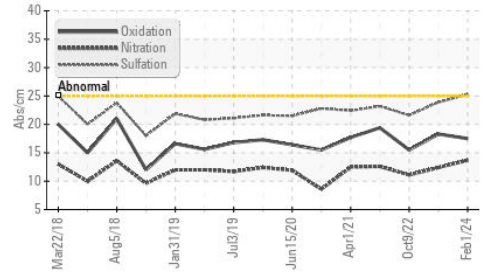
There is no indication of any contamination in the oil.

## FLUID CONDITION

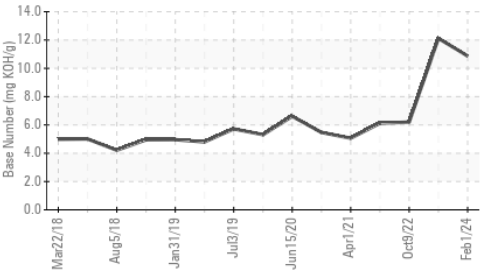
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | TR06214102 | TR05908354 | TR05676357 |
| Sample Date | | Client Info | | 01 Feb 2024 | 06 Jul 2023 | 09 Oct 2022 |
| Machine Age | mls | Client Info | | 360000 | 350000 | 337000 |
| Oil Age | mls | Client Info | | 5000 | 8000 | 3500 |
| Filter Age | mls | Client Info | | 1000 | 1000 | 6000 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Filter Changed | | Client Info | | Changed | Changed | Not Changd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| Iron | ppm | ASTM D5185m | >150 | 5 | 6 | 3 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >40 | 4 | 2 | 1 |
| Lead | ppm | ASTM D5185m | >50 | 1 | 2 | 2 |
| Copper | ppm | ASTM D5185m | >155 | <1 | 0 | <1 |
| Tin | ppm | ASTM D5185m | >10 | <1 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >30 | 15 | 14 | 8 |
| Potassium | ppm | ASTM D5185m | >20 | 4 | 0 | 2 |
| Fuel | % | ASTM D3524 | >4.0 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | | 0.1 | 0.1 | 0.1 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 13.7 | 12.4 | 11.1 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 25.3 | 23.9 | 21.6 |
| Silt | scalar | *Visual | NONE | LIGHT | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | NEG |
| Sodium | ppm | ASTM D5185m | >400 | 4 | 2 | 0 |
| Boron | ppm | ASTM D5185m | | 50 | 118 | 31 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 147 | 204 | 201 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 249 | 435 | 393 |
| Calcium | ppm | ASTM D5185m | | 3733 | 3761 | 1578 |
| Phosphorus | ppm | ASTM D5185m | | 976 | 819 | 655 |
| Zinc | ppm | ASTM D5185m | | 1097 | 1017 | 803 |
| Sulfur | ppm | ASTM D5185m | | 4550 | 4252 | 2584 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 17.5 | 18.3 | 15.5 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 10.87 | 12.12 | 6.20 |
| Visc @ 100°C | cSt | ASTM D445 | 12.0 | 11.7 | 14.3 | 10.1 |

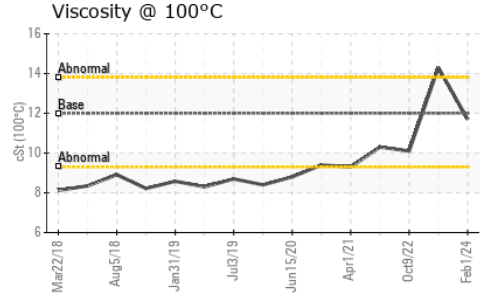
FT-IR (Direct Trend)



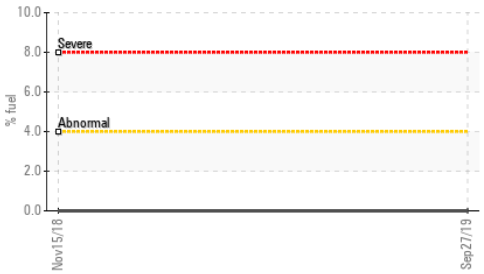

Base Number



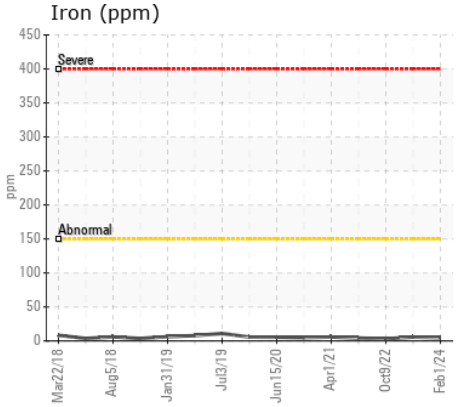

Viscosity @ 100°C



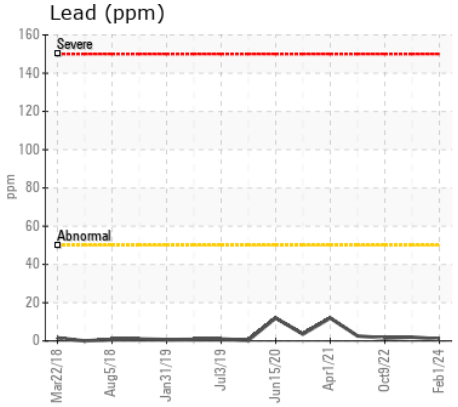

Fuel Dilution



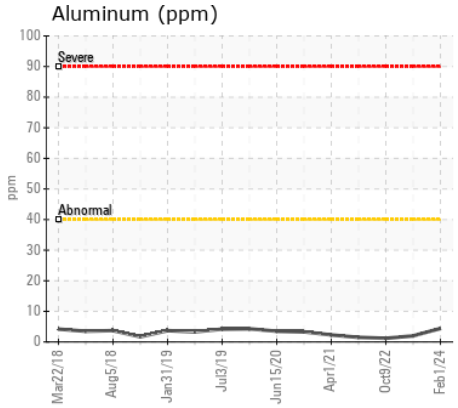

Iron (ppm)



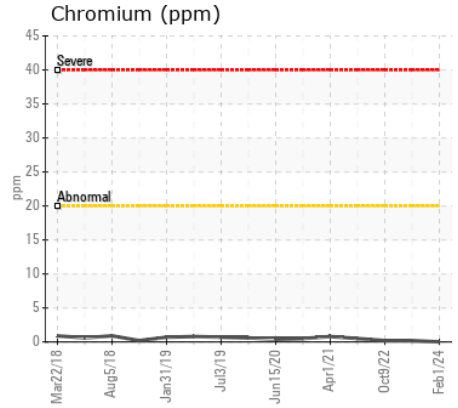

Lead (ppm)



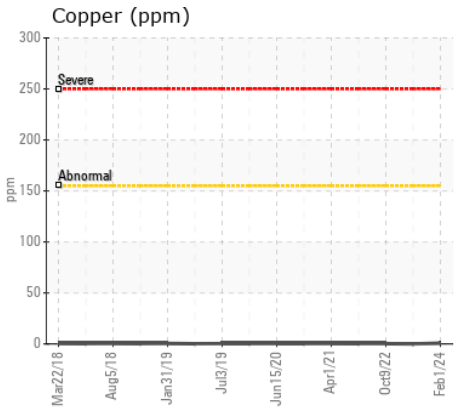

Aluminum (ppm)



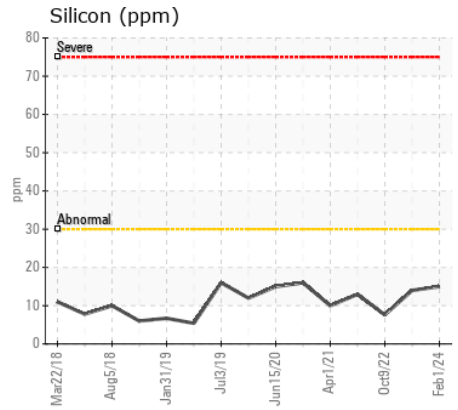

Chromium (ppm)



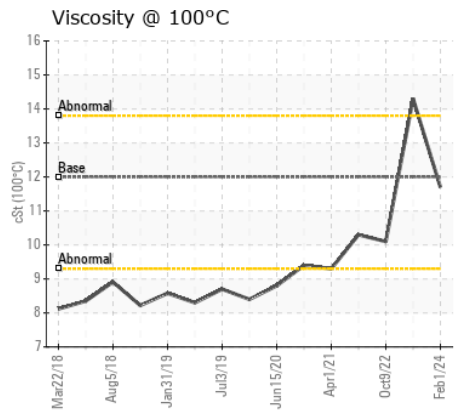

Copper (ppm)



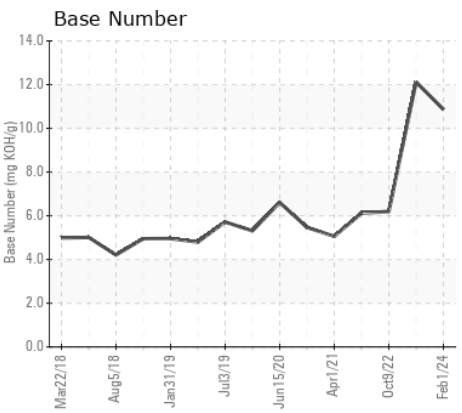

Silicon (ppm)




Viscosity @ 100°C




Base Number





**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : TR06214102
**Lab Number** : 06214102
**Unique Number** : 11086966
**Test Package** : MOB 2 ( Additional Tests: FuelDilution )

**Received** : 18 Jun 2024
**Tested** : 20 Jun 2024
**Diagnosed** : 20 Jun 2024 - Sean Felton

Certificate L2367


*To discuss this sample report, contact Customer Service at 1-800-827-0711.*
** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.*
*Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)*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